

# The Ohio State University

2021 FALL/SPRING/CORN

Trial ID: 22FALLCORN2      Cooperator Trial ID:  
 Protocol ID: H21US-0X1-577-001      Location:      Trial Year: 2020  
 Project ID:      Project ID 2:      Project ID 3:  
 Study Director:      Sponsor Contact:  
 Investigator (Creator): Dr. Mark M. Loux

## General Trial Information

Investigator: Joe Reed

Status: E      established  
 ARM Trial Created On: Nov-18-2021

## Trial Location

Address (Location): 7721 South Charleston Pike  
 City: South Charleston      Country: USA United States  
 State/Prov.: Ohio  
 Postal Code: 45368

Latitude of LL Corner °: 39.85879      N  
 Longitude of LL Corner °: -83.6721      W  
 Altitude of LL Corner: 1088.00 FT

Conducted Under GLP: No  
 Conducted Under GEP: No  
 None

Role: INVEST investigator  
 Investigator: Joe Reed

## Crop Description

Crop 1: C      ZEAMXZea mays      Corn      BBCH Scale: BCOR  
 Entry Date: May-3-2022      Stage Scale: BBCH  
 Variety: Seed Consultants SC1122Q  
 Attributes: Glyphosate-R, Glufosinate-R  
 Seed Size: 1826 S/LB  
 Planting Date: Apr-26-2022      Planting Rate: 32097      S/A  
 Depth: 2      IN  
 Rows per Plot: 4  
 Row Spacing: 30      IN  
 Planting Method: PLANTD      planted  
 Planting Equipment: FPP      finger pickup planter  
 Seed Bed: MEDTRA      medium/trashy  
 Soil Temperature: 57      F  
 Soil Moisture: NORMAL      normal, adequate  
 Emergence Date: May-13-2022  
 Harvested Width: 6.25      FT  
 Harvested Length: 30      FT  
 % Standard Moisture: 15.5

## Pest Description

Pest 1 Type: W      Code: LAMPU Lamium purpureum      Entry Date: Apr-1-2022  
 Common Name: Purple deadnettle      Stage Scale: BBCH  
 Pest 2 Type: W      Code: RANAB Ranunculus abortivus      Entry Date: Apr-1-2022  
 Common Name: Smallflower buttercup      Stage Scale: BBCH  
 Pest 3 Type: W      Code: CARPE Cardamine pensylvanica      Entry Date: Apr-1-2022  
 Common Name: Pennsylvania bittercress      Stage Scale: BBCH  
 Pest 4 Type: W      Code: STEME Stellaria media      Entry Date: May-18-2022  
 Common Name: chickweed      Stage Scale: BBCH  
 Pest 5 Type: W      Code: SETFA Setaria faberi      Entry Date: May-18-2022  
 Common Name: Giant foxtail      Stage Scale: BBCH  
 Pest 6 Type: W      Code: AMBTR Ambrosia trifida      Entry Date: May-18-2022  
 Common Name: Giant ragweed      Stage Scale: BBCH  
 Pest 7 Type: W      Code: AMBEL Ambrosia artemisiifolia      Entry Date: May-18-2022  
 Common Name: Common ragweed      Stage Scale: BBCH  
 Pest 8 Type: W      Code: CHEAL Chenopodium album      Entry Date: Jun-1-2022  
 Common Name: common lambsquarters      Stage Scale: BBCH  
 Pest 9 Type: W      Code: ABUTH Abutilon theophrasti      Entry Date: Jun-1-2022  
 Common Name: velvetleaf      Stage Scale: BBCH

## Site and Design

Treated Plot Width: 6.67      FT      Site Type: FIELD      field  
 Treated Plot Length: 30      FT      Experimental Unit: 1      PLOT      plot  
 Treated Plot Area: 200.1      FT<sup>2</sup>      Tillage Type: NOTILL      no-till  
 Replications: 3      Treatments: 6      Plots: 18      Study Design: RACOBL Randomized Complete Block (RCB)

Previous  
 No.      Crop      Year  
 1.      CORN      2021

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## Soil Description

Description Name: F-9 West  
 % Sand: 33      % OM: 1.6      Texture: SIL silt loam  
 % Silt: 53      Soil Name: Crosby  
 % Clay: 15      Fert. Level: G good  
                          pH: 6      CEC: 8.6

## Application Description

	A	B	C	D	E
Application Date	Nov-19-2021	Apr-27-2022	May-17-2022	May-31-2022	Jun-15-2022
Appl. Start Time	1:30 PM	8:30 AM	9:30 AM	11:10 AM	1:10 PM
Appl. Stop Time	1:45 PM	8:40 AM	9:46 AM	11:20 AM	1:20 PM
Interval to Prev. Appl.		159 DAYS	20 DAYS	14 DAYS	15 DAYS
Application Method	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing	FALPRE	SPRPRE	EAPOCR	MIDPOCR	LAPOCR
Application Placement	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By	Dobbels	Dobbels	Dobbels	Dobbels	Dobbels
Appl. Entry Date	Apr-1-2022	May-3-2022	May-18-2022	Jun-1-2022	Jul-18-2022
Air Temperature Start, Stop	36, 36 F	35, 35 F	67, 67 -	81, 81 F	91, 91 F
% Relative Humidity Start, Stop	54, 54	79, 79	50, 50	59, 59	57, 57
Wind Velocity+Dir. Start	2 MPH, S	8 MPH, SE	6 MPH, NW	6 MPH, SW	4 MPH, W
Wind Velocity+Dir. Stop	2 MPH, S	8 MPH, SE	6 MPH, NW	6 MPH, SW	4 MPH, W
Wind Velocity+Dir. Max	2 MPH, S	8 MPH, SE	6 MPH, NW	6 MPH, SW	4 MPH, W
Wet Leaves (Y/N)	N, no	Y, yes	N, no	N, no	N, no
Soil Temperature	38 F	45 F	58 F	76 F	80 F
Soil Moisture	moist	NORMAL	DRY	DRY	DRY
Soil Surface Condition	MEDTRA	MEDTRA	MEDTRA	MEDTRA	MEDTRA
% Cloud Cover	20	0	0	10	0
Next Moisture Occurred On	Nov-21-2021	Apr-30-2022	May-18-2022	Jun-1-2022	Jun-26-2022
Time to Next Moisture	3.0 DAY	3.0 DAY	1.0 DAY	1.0 DAY	11.0 DAY
Moisture 6 Hours after Appl.	0 IN	0 IN	0 IN	0 IN	0 IN
Moisture 1 Week after Appl.	0.45 IN	0.58 IN	1.63 IN	0.94 IN	0 IN

## Crop Stage At Each Application

	A	B	C	D	E
Crop 1 Code, BBCH Scale	ZEAMX, BCORZEAMX	ZEAMX, BCORZEAMX	ZEAMX, BCORZEAMX	ZEAMX, BCORZEAMX	ZEAMX, BCOR
Days after Emergence	-175	-16	4	18	33
Stage Majority, Percent			10, 100	14, -	
Height Average			2 IN	12 IN	
Height Minimum, Maximum			1.75, 2	11, 12	

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## Pest Stage At Each Application

	A	B	C	D	E
Pest 1 Code, Type, Scale	LAMPU, W, BBCH	LAMPU, W, BBCH	LAMPU, W, BBCH	LAMPU, W, BBCH	LAMPU, W, BBCH
Stage Majority, Percent			14, 50		
Stage Minimum, Percent			14, 50		
Stage Maximum, Percent			16, 50		
Diameter Average			1 IN		
Diameter Minimum, Maximum			0.5, 1		
Height Average			1 IN		
Height Minimum, Maximum			0.5, 1		
Pest 2 Code, Type, Scale	RANAB, W, BBCH	RANAB, W, BBCH	RANAB, W, BBCH	RANAB, W, BBCH	RANAB, W, BBCH
Pest 3 Code, Type, Scale	CARPE, W, BBCH	CARPE, W, BBCH	CARPE, W, BBCH	CARPE, W, BBCH	CARPE, W, BBCH
Pest 4 Code, Type, Scale	STEME, W, BBCH	STEME, W, BBCH	STEME, W, BBCH	STEME, W, BBCH	STEME, W, BBCH
Stage Majority, Percent			19, 100		
Diameter Average			4 IN		
Diameter Minimum, Maximum			3, 4		
Height Average			1 IN		
Height Minimum, Maximum			0.5, 1		
Pest 5 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent			12, 80		
Stage Minimum, Percent			11, 10		
Stage Maximum, Percent			13, 10		
Height Average			1 IN	6 IN	
Height Minimum, Maximum			1, 3.5	4, 8	
Pest 6 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent			19, 60		
Stage Minimum, Percent			12, 20		
Stage Maximum, Percent			19, 20		
Height Average			8 IN	22 IN	
Height Minimum, Maximum			4, 11	12, 24	
Pest 7 Code, Type, Scale	AMBEL, W, BBCH	AMBEL, W, BBCH	AMBEL, W, BBCH	AMBEL, W, BBCH	AMBEL, W, BBCH
Stage Majority, Percent			16, 60		
Stage Minimum, Percent			12, 20		
Stage Maximum, Percent			28, 20		
Height Average			2.5 IN	4 IN	
Height Minimum, Maximum			0.5, 4	2, 4	
Pest 8 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH
Height Average			4 IN		
Height Minimum, Maximum			2, 4		
Pest 9 Code, Type, Scale	ABUTH, W, BBCH	ABUTH, W, BBCH	ABUTH, W, BBCH	ABUTH, W, BBCH	ABUTH, W, BBCH
Height Average			3 IN		
Height Minimum, Maximum			2, 3		

## Application Equipment

	A	BCDE
Appl. Equipment	6' AIXR	
Equipment Type	BACCAI	
Operation Pressure	44 PSI	
Nozzle Model	110015	
Nozzle Type	AI XR	
Nozzle TradeName	TeeJet	
Nozzle Tip Size, Color	015, green	
Nozzle Spacing	18 IN	
Boom Length	10 FT	
Boom Height	20 IN	
Ground Speed	3 MPH	
Carrier	WATER	
Water Hardness (ppm CaCO3)	250	
Application Amount	15 GAL/AC	
Mix Overage	25 mL	
Mix Size	2 L	
Spray pH	7.8	
Propellant	COMCO2	
Tank Mix (Y/N)	Y, yes	

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	STEME	LAMPU	CARPE	RANAB
Pest Scientific Name	Stellaria media	Lamium purpureum	Cardamine pensity>	Ranunculus abor>
Pest Name	chickweed	purple deadnett>	Pennsylvania bi>	Smallflower but>
Crop Type, Code				
Crop Name				
Rating Date	Apr-26-2022	Apr-26-2022	Apr-26-2022	Apr-26-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	May-3-2022			
Rating Timing				
Days After First/Last Applic.	158, 158	158, 158	158, 158	158, 158
Trt-Eval Interval	AT PLANT	AT PLANT	AT PLANT	AT PLANT
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-17 DE-1	-17 DE-1	-17 DE-1	-17 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Appl Code	Appl Description	1*	2*	3*	4*
1 Untreated Check		D		0-	0-	0-	0-
2 Roundup PowerMax	32 fl oz/a A		Fall Application	100-	100-	100-	100-
2 Preview 2:1 SC	20 fl oz/a A		Fall Application				
2 N Pak AMS	6% v/v A		Fall Application				
2 InterMoc / KFD-235-02	29 fl oz/a C		Early Post Application				
2 NIS	0.25% v/v C		Early Post Application				
2 AMS	6% v/v C		Early Post Application				
2 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
2 NIS	0.25% v/v E		Late Post Application				
2 N Pak AMS	6% v/v E		Late Post Application				
3 Roundup PowerMax	32 fl oz/a A		Fall Application	100-	100-	100-	100-
3 Preview 2:1 SC	25 fl oz/a A		Fall Application				
3 N Pak AMS	6% v/v A		Fall Application				
3 InterMoc / KFD-235-02	29 fl oz/a C		Early Post Application				
3 NIS	0.25% v/v C		Early Post Application				
3 N Pak AMS	6% v/v C		Early Post Application				
3 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
3 NIS	0.25% v/v E		Late Post Application				
3 N Pak AMS	6% v/v E		Late Post Application				
4 Roundup PowerMax	32 fl oz/a A		Fall Application	100-	100-	100-	100-
4 Authority MTZ / KFD-291-02	14 oz/a A		Fall Application				
4 N Pak AMS	6% v/v A		Fall Application				
4 Anthem MAX	2 fl oz/a C		Early Post Application				
4 NIS	0.25% v/v C		Early Post Application				
4 N Pak AMS	6% v/v C		Early Post Application				
4 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
4 NIS	0.25% v/v E		Late Post Application				
4 N Pak AMS	6% v/v E		Late Post Application				
5 Roundup PowerMax	32 oz/a A		Fall Application	100-	100-	100-	100-
5 Audit 1:1	0.75 oz/a A		Fall Application				
5 N Pak AMS	6% v/v A		Fall Application				
5 Preview 2:1 SC	20 fl oz/a B		Spring Application				
5 N Pak AMS	6% v/v B		Spring Application				
5 Interline - Lifeline / KFD-138	32 fl oz/a D		Mid Post Application				
5 NIS	0.25% v/v D		Mid Post Application				
5 N Pak AMS	2.5% v/v D		Mid Post Application				
5 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
5 NIS	0.25% v/v E		Late Post Application				
5 N Pak AMS	6% v/v E		Late Post Application				

Means followed by same letter or symbol do not significantly differ (P= .05, Student-Newman-Keuls).  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9, 12-18=3; 10=2.8; 11=1.9  
 \* Adjusted means  
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6 because error mean square = 0.  
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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	STEME	LAMPU	CARPE	RANAB
Pest Scientific Name	Stellaria media	Lamium purpureum	Cardamine pensity	Ranunculus abortivus
Pest Name	chickweed	purple deadnettle	Pennsylvania bi	Smallflower but
Crop Type, Code				
Crop Name				
Rating Date	Apr-26-2022	Apr-26-2022	Apr-26-2022	Apr-26-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	May-3-2022			
Rating Timing				
Days After First/Last Applic.	158, 158	158, 158	158, 158	158, 158
Trt-Eval Interval	AT PLANT	AT PLANT	AT PLANT	AT PLANT
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-17 DE-1	-17 DE-1	-17 DE-1	-17 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment	1*	2*	3*	4*
No. Name	Rate	Appl	Appl	
	Rate Unit	Code	Description	
6 Roundup PowerMax	32 fl oz/a	B	Spring Application	0-
6 Preview 2:1 SC	20 fl oz/a	B	Spring Application	0-
6 N Pak AMS	6% v/v	B	Spring Application	0-
6 Interline - Lifeline / KFD-138	32 fl oz/a	D	Mid Post Application	0-
6 NIS	0.25% v/v	D	Mid Post Application	0-
6 N Pak AMS	6% v/v	D	Mid Post Application	0-
6 Interline - Lifeline / KFD-138	32 fl oz/a	E	Late Post Application	0-
6 NIS	0.25% v/v	E	Late Post Application	0-
6 N Pak AMS	6% v/v	E	Late Post Application	0-
LSD P=.05	.	.	.	.
Standard Deviation	0.0	0.0	0.0	0.0
CV	0.0	0.0	0.0	0.0
Grand Mean	66.7	66.7	66.7	66.7
Levene's F^	.	.	.	.
Levene's Prob(F)	.	.	.	.
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness^	.	.	.	.
Kurtosis^	.	.	.	.
Replicate F	0.000	0.000	0.000	0.000
Replicate Prob(F)	1.0000	1.0000	1.0000	1.0000
Treatment F	0.000	0.000	0.000	0.000
Treatment Prob(F)	1.0000	1.0000	1.0000	1.0000

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	W, Weed	W, Weed	W, Weed	W, Weed
Pest Type	ERPSS	AMBTR	SETFA	AMBTR
Pest Code				
Pest Scientific Name	Erophila sp.	Ambrosia trifida	Setaria faberi	Ambrosia trifida
Pest Name	Whitlowgrass	Giant ragweed	Giant foxtail	Giant ragweed
Crop Type, Code				
Crop Name				
Rating Date	Apr-26-2022	Apr-26-2022	May-31-2022	May-31-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	May-3-2022	May-3-2022	Jun-2-2022	Jun-2-2022
Rating Timing			AT POST	AT POST
Days After First/Last Applic.	158, 158	158, 158	193, 14	193, 14
Trt-Eval Interval	AT PLANT	AT PLANT		
Plant-Eval Interval	0 DP-1	0 DP-1	35 DP-1	35 DP-1
Days After Emergence	-17 DE-1	-17 DE-1	18 DE-1	18 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Appl Code	Appl Description	5*	6*	7*	8*
1 Untreated Check		D		0-	0-	23-	20-
2 Roundup PowerMax	32 fl oz/a A		Fall Application	100-	0-	72-	63-
2 Preview 2:1 SC	20 fl oz/a A		Fall Application				
2 N Pak AMS	6% v/v A		Fall Application				
2 InterMoc / KFD-235-02	29 fl oz/a C		Early Post Application				
2 NIS	0.25% v/v C		Early Post Application				
2 AMS	6% v/v C		Early Post Application				
2 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
2 NIS	0.25% v/v E		Late Post Application				
2 N Pak AMS	6% v/v E		Late Post Application				
3 Roundup PowerMax	32 fl oz/a A		Fall Application	100-	0-	67-	60-
3 Preview 2:1 SC	25 fl oz/a A		Fall Application				
3 N Pak AMS	6% v/v A		Fall Application				
3 InterMoc / KFD-235-02	29 fl oz/a C		Early Post Application				
3 NIS	0.25% v/v C		Early Post Application				
3 N Pak AMS	6% v/v C		Early Post Application				
3 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
3 NIS	0.25% v/v E		Late Post Application				
3 N Pak AMS	6% v/v E		Late Post Application				
4 Roundup PowerMax	32 fl oz/a A		Fall Application	100-	0-	63-	10-
4 Authority MTZ / KFD-291-02	14 oz/a A		Fall Application				
4 N Pak AMS	6% v/v A		Fall Application				
4 Anthem MAX	2 fl oz/a C		Early Post Application				
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4 N Pak AMS	6% v/v C		Early Post Application				
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4 NIS	0.25% v/v E		Late Post Application				
4 N Pak AMS	6% v/v E		Late Post Application				
5 Roundup PowerMax	32 oz/a A		Fall Application	100-	0-	63-	60-
5 Audit 1:1	0.75 oz/a A		Fall Application				
5 N Pak AMS	6% v/v A		Fall Application				
5 Preview 2:1 SC	20 fl oz/a B		Spring Application				
5 N Pak AMS	6% v/v B		Spring Application				
5 Interline - Lifeline / KFD-138	32 fl oz/a D		Mid Post Application				
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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ERPSS	AMBTR	SETFA	AMBTR
Pest Scientific Name	Erophila sp. Ambrosia trifida Setaria faberi Ambrosia trifida			
Pest Name	Whitlowgrass	Giant ragweed	Giant foxtail	Giant ragweed
Crop Type, Code				
Crop Name				
Rating Date	Apr-26-2022	Apr-26-2022	May-31-2022	May-31-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	May-3-2022	May-3-2022	Jun-2-2022	Jun-2-2022
Rating Timing			AT POST	AT POST
Days After First/Last Applic.	158, 158	158, 158	193, 14	193, 14
Trt-Eval Interval	AT PLANT	AT PLANT		
Plant-Eval Interval	0 DP-1	0 DP-1	35 DP-1	35 DP-1
Days After Emergence	-17 DE-1	-17 DE-1	18 DE-1	18 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment	5*	6*	7*	8*
No. Name	Rate Unit	Appl Code	Appl Description	
6 Roundup PowerMax	32 fl oz/a B		Spring Application	0-      0-      47-      40-
6 Preview 2:1 SC	20 fl oz/a B		Spring Application	
6 N Pak AMS	6% v/v B		Spring Application	
6 Interline - Lifeline / KFD-138	32 fl oz/a D		Mid Post Application	
6 NIS	0.25% v/v D		Mid Post Application	
6 N Pak AMS	6% v/v D		Mid Post Application	
6 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application	
6 NIS	0.25% v/v E		Late Post Application	
6 N Pak AMS	6% v/v E		Late Post Application	
LSD P=.05	.	.	47.7	43.5
Standard Deviation	0.0	0.0	26.2	23.9
CV	0.0	0.0	46.96	56.66
Grand Mean	66.7	0.0	55.8	42.2
Levene's F^	.	.	0.694	0.731
Levene's Prob(F)	.	.	0.638	0.614
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness^	.	.	0.0081	0.4752
Kurtosis^	.	.	1.909	1.3364
Replicate F	0.000	0.000	0.055	0.126
Replicate Prob(F)	1.0000	1.0000	0.9472	0.8828
Treatment F	0.000	0.000	1.415	2.742
Treatment Prob(F)	1.0000	1.0000	0.2990	0.0820

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,12-18=3; 10=2.8; 11=1.9

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6 because error mean square = 0.

^Calculated from residual.

# The Ohio State University

2021 FALL/SPRING/CORN

Trial ID: 22FALLCORN2  
 Protocol ID: H21US-0X1-577-001 Location: Cooperator Trial ID:  
 Project ID: Project ID 2: Project ID 3: Trial Year: 2020  
 Study Director: Sponsor Contact:  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	CHEAL	AMARE	ABUTH	SETFA
Pest Scientific Name	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Setaria faberi
Pest Name	common lambsqua>	Redroot pigweed	velvetleaf	Giant foxtail
Crop Type, Code				
Crop Name				
Rating Date	May-31-2022	May-31-2022	May-31-2022	Jun-13-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-15-2022
Rating Timing	AT POST	AT POST	AT POST	
Days After First/Last Applic.	193, 14	193, 14	193, 14	206, 13
Trt-Eval Interval				13 DA-D
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	48 DP-1
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	31 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Appl Code	Appl Description	9*	10*	11*	12*
1 Untreated Check		D		33-	33-	33-	77-
2 Roundup PowerMax	32 fl oz/a A		Fall Application	70-	100-	67-	67-
2 Preview 2:1 SC	20 fl oz/a A		Fall Application				
2 N Pak AMS	6% v/v A		Fall Application				
2 InterMoc / KFD-235-02	29 fl oz/a C		Early Post Application				
2 NIS	0.25% v/v C		Early Post Application				
2 AMS	6% v/v C		Early Post Application				
2 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
2 NIS	0.25% v/v E		Late Post Application				
2 N Pak AMS	6% v/v E		Late Post Application				
3 Roundup PowerMax	32 fl oz/a A		Fall Application	73-	80-	55-	63-
3 Preview 2:1 SC	25 fl oz/a A		Fall Application				
3 N Pak AMS	6% v/v A		Fall Application				
3 InterMoc / KFD-235-02	29 fl oz/a C		Early Post Application				
3 NIS	0.25% v/v C		Early Post Application				
3 N Pak AMS	6% v/v C		Early Post Application				
3 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
3 NIS	0.25% v/v E		Late Post Application				
3 N Pak AMS	6% v/v E		Late Post Application				
4 Roundup PowerMax	32 fl oz/a A		Fall Application	100-	100-		63-
4 Authority MTZ / KFD-291-02	14 oz/a A		Fall Application				
4 N Pak AMS	6% v/v A		Fall Application				
4 Anthem MAX	2 fl oz/a C		Early Post Application				
4 NIS	0.25% v/v C		Early Post Application				
4 N Pak AMS	6% v/v C		Early Post Application				
4 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
4 NIS	0.25% v/v E		Late Post Application				
4 N Pak AMS	6% v/v E		Late Post Application				
5 Roundup PowerMax	32 oz/a A		Fall Application	70-	100-	95-	82-
5 Audit 1:1	0.75 oz/a A		Fall Application				
5 N Pak AMS	6% v/v A		Fall Application				
5 Preview 2:1 SC	20 fl oz/a B		Spring Application				
5 N Pak AMS	6% v/v B		Spring Application				
5 Interline - Lifeline / KFD-138	32 fl oz/a D		Mid Post Application				
5 NIS	0.25% v/v D		Mid Post Application				
5 N Pak AMS	2.5% v/v D		Mid Post Application				
5 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
5 NIS	0.25% v/v E		Late Post Application				
5 N Pak AMS	6% v/v E		Late Post Application				

Means followed by same letter or symbol do not significantly differ (P= .05, Student-Newman-Keuls).  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9, 12-18=3; 10=2.8; 11=1.9  
 \* Adjusted means  
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6 because error mean square = 0.  
 ^Calculated from residual.



# The Ohio State University

2021 FALL/SPRING/CORN

Trial ID: 22FALLCORN2      Cooperator Trial ID:  
 Protocol ID: H21US-0X1-577-001      Location:      Trial Year: 2020  
 Project ID:      Project ID 2:      Project ID 3:  
 Study Director:      Sponsor Contact:  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	CHEAL	AMARE	ABUTH	SETFA
Pest Scientific Name	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Setaria faberi
Pest Name	common lambsqua>	Redroot pigweed	velvetleaf	Giant foxtail
Crop Type, Code				
Crop Name				
Rating Date	May-31-2022	May-31-2022	May-31-2022	Jun-13-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-15-2022
Rating Timing	AT POST	AT POST	AT POST	
Days After First/Last Applic.	193, 14	193, 14	193, 14	206, 13
Trt-Eval Interval				13 DA-D
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	48 DP-1
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	31 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment	9*	10*	11*	12*
No. Name	Rate Unit	Appl Code	Appl Description	
6 Roundup PowerMax	32 fl oz/a B		Spring Application	67 -
6 Preview 2:1 SC	20 fl oz/a B		Spring Application	67 -
6 N Pak AMS	6% v/v B		Spring Application	-18 -
6 Interline - Lifeline / KFD-138	32 fl oz/a D		Mid Post Application	78 -
6 NIS	0.25% v/v D		Mid Post Application	
6 N Pak AMS	6% v/v D		Mid Post Application	
6 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application	
6 NIS	0.25% v/v E		Late Post Application	
6 N Pak AMS	6% v/v E		Late Post Application	
LSD P=.05	67.9	72.8	83.2	27.6
Standard Deviation	37.3	39.4	36.7	15.2
CV	54.16	50.04	65.09	21.16
Grand Mean	68.9	78.8	56.4	71.7
Levene's F^	0.639	0.598	0.218	0.514
Levene's Prob(F)	0.675	0.703	0.919	0.761
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness^	0.1252	0.1824	0.8562	-0.3399
Kurtosis^	1.9954	1.7362	0.4644	-0.4756
Replicate F	0.028	0.043	0.576	5.435
Replicate Prob(F)	0.9725	0.9582	0.6029	0.0253
Treatment F	0.974	1.317	1.657	0.870
Treatment Prob(F)	0.4783	0.3384	0.3183	0.5340

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Due to missing data, the effective replicates used for mean comparisons are: col. 1-9, 12-18=3; 10=2.8; 11=1.9

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6 because error mean square = 0.

^Calculated from residual.

# The Ohio State University

2021 FALL/SPRING/CORN

Trial ID: 22FALLCORN2  
 Protocol ID: H21US-0X1-577-001 Location: Cooperator Trial ID:  
 Project ID: Project ID 2: Project ID 3: Trial Year: 2020  
 Study Director: Sponsor Contact:  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ECHCG	AMBTR	CHEAL	ECHCG
Pest Scientific Name	Echinochloa cru>	Ambrosia trifida	Chenopodium alb>	Echinochloa cru>
Pest Name	common barnyard>	Giant ragweed	common lambsqua>	common barnyard>
Crop Type, Code				
Crop Name				
Rating Date	Jun-13-2022	Jun-13-2022	Jun-13-2022	Jun-27-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-15-2022	Jun-15-2022	Jun-15-2022	Jun-28-2022
Rating Timing				
Days After First/Last Applic.	206, 13	206, 13	206, 13	220, 12
Trt-Eval Interval	13 DA-D	13 DA-D	13 DA-D	27 DA-D
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	62 DP-1
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	45 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Appl Code	Appl Description	13*	14*	15*	16*
1 Untreated Check		D		63-	73a	67-	98a
2 Roundup PowerMax	32 fl oz/a A		Fall Application	57-	37b	93-	95a
2 Preview 2:1 SC	20 fl oz/a A		Fall Application				
2 N Pak AMS	6% v/v A		Fall Application				
2 InterMoc / KFD-235-02	29 fl oz/a C		Early Post Application				
2 NIS	0.25% v/v C		Early Post Application				
2 AMS	6% v/v C		Early Post Application				
2 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
2 NIS	0.25% v/v E		Late Post Application				
2 N Pak AMS	6% v/v E		Late Post Application				
3 Roundup PowerMax	32 fl oz/a A		Fall Application	67-	37b	87-	85b
3 Preview 2:1 SC	25 fl oz/a A		Fall Application				
3 N Pak AMS	6% v/v A		Fall Application				
3 InterMoc / KFD-235-02	29 fl oz/a C		Early Post Application				
3 NIS	0.25% v/v C		Early Post Application				
3 N Pak AMS	6% v/v C		Early Post Application				
3 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
3 NIS	0.25% v/v E		Late Post Application				
3 N Pak AMS	6% v/v E		Late Post Application				
4 Roundup PowerMax	32 fl oz/a A		Fall Application	63-	0c	100-	82b
4 Authority MTZ / KFD-291-02	14 oz/a A		Fall Application				
4 N Pak AMS	6% v/v A		Fall Application				
4 Anthem MAX	2 fl oz/a C		Early Post Application				
4 NIS	0.25% v/v C		Early Post Application				
4 N Pak AMS	6% v/v C		Early Post Application				
4 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
4 NIS	0.25% v/v E		Late Post Application				
4 N Pak AMS	6% v/v E		Late Post Application				
5 Roundup PowerMax	32 oz/a A		Fall Application	73-	70a	90-	98a
5 Audit 1:1	0.75 oz/a A		Fall Application				
5 N Pak AMS	6% v/v A		Fall Application				
5 Preview 2:1 SC	20 fl oz/a B		Spring Application				
5 N Pak AMS	6% v/v B		Spring Application				
5 Interline - Lifeline / KFD-138	32 fl oz/a D		Mid Post Application				
5 NIS	0.25% v/v D		Mid Post Application				
5 N Pak AMS	2.5% v/v D		Mid Post Application				
5 Interline - Lifeline / KFD-138	32 fl oz/a E		Late Post Application				
5 NIS	0.25% v/v E		Late Post Application				
5 N Pak AMS	6% v/v E		Late Post Application				

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,12-18=3; 10=2.8; 11=1.9  
 \* Adjusted means  
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6 because error mean square = 0.  
 ^Calculated from residual.

# The Ohio State University

2021 FALL/SPRING/CORN

Trial ID: 22FALLCORN2      Cooperator Trial ID:  
 Protocol ID: H21US-0X1-577-001      Location:      Trial Year: 2020  
 Project ID:      Project ID 2:      Project ID 3:  
 Study Director:      Sponsor Contact:  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ECHCG	AMBTR	CHEAL	ECHCG
Pest Scientific Name	Echinochloa cru>	Ambrosia trifida	Chenopodium alb>	Echinochloa cru>
Pest Name	common barnyard>	Giant ragweed	common lambsqua>	common barnyard>
Crop Type, Code				
Crop Name				
Rating Date	Jun-13-2022	Jun-13-2022	Jun-13-2022	Jun-27-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-15-2022	Jun-15-2022	Jun-15-2022	Jun-28-2022
Rating Timing				
Days After First/Last Applic.	206, 13	206, 13	206, 13	220, 12
Trt-Eval Interval	13 DA-D	13 DA-D	13 DA-D	27 DA-D
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	62 DP-1
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	45 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Rate	Appl	Appl	
	Rate Unit	Code	Description	
6 Roundup PowerMax	32 fl oz/a	B	Spring Application	13*
6 Preview 2:1 SC	20 fl oz/a	B	Spring Application	14*
6 N Pak AMS	6% v/v	B	Spring Application	15*
6 Interline - Lifeline / KFD-138	32 fl oz/a	D	Mid Post Application	16*
6 NIS	0.25% v/v	D	Mid Post Application	
6 N Pak AMS	6% v/v	D	Mid Post Application	
6 Interline - Lifeline / KFD-138	32 fl oz/a	E	Late Post Application	
6 NIS	0.25% v/v	E	Late Post Application	
6 N Pak AMS	6% v/v	E	Late Post Application	
LSD P=.05	24.6	19.8	47.9	4.0
Standard Deviation	13.5	10.9	26.3	2.2
CV	20.73	22.05	30.75	2.34
Grand Mean	65.3	49.4	85.6	93.1
Levene's F^	0.56	0.314	0.685	0.593
Levene's Prob(F)	0.729	0.895	0.644	0.706
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness^	-0.333	-0.4414	-0.6711	-0.4191
Kurtosis^	-0.1446	-0.5471	0.9136	0.3901
Replicate F	1.965	1.729	0.538	0.294
Replicate Prob(F)	0.1906	0.2265	0.6001	0.7514
Treatment F	0.517	23.710	0.629	38.412
Treatment Prob(F)	0.7580	0.0001	0.6822	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,12-18=3; 10=2.8; 11=1.9

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6 because error mean square = 0.

^Calculated from residual.

# The Ohio State University

2021 FALL/SPRING/CORN

Trial ID: 22FALLCORN2      Cooperator Trial ID:  
 Protocol ID: H21US-0X1-577-001      Location:      Trial Year: 2020  
 Project ID:      Project ID 2:      Project ID 3:  
 Study Director:      Sponsor Contact:  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed
Pest Code	AMBTR	CHEAL
Pest Scientific Name	Ambrosia trifida	Chenopodium alb>
Pest Name	Giant ragweed common	lambsqua>
Crop Type, Code		
Crop Name		
Rating Date	Jun-27-2022	Jun-27-2022
Rating Type	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100
Number of Subsamples	1	1
Data Entry Date	Jun-28-2022	Jun-28-2022
Rating Timing		
Days After First/Last Applic.	220, 12	220, 12
Trt-Eval Interval	27 DA-D	27 DA-D
Plant-Eval Interval	62 DP-1	62 DP-1
Days After Emergence	45 DE-1	45 DE-1
ARM Action Codes		
Number of Decimals	0	0

Trt Treatment No. Name	Rate Rate Unit	Appl Appl Code Description	17*	18*
1 Untreated Check		D	95 a	95-
2 Roundup PowerMax	32 fl oz/a A	Fall Application	92 a	100-
2 Preview 2:1 SC	20 fl oz/a A	Fall Application		
2 N Pak AMS	6% v/v A	Fall Application		
2 InterMoc / KFD-235-02	29 fl oz/a C	Early Post Application		
2 NIS	0.25% v/v C	Early Post Application		
2 AMS	6% v/v C	Early Post Application		
2 Interline - Lifeline / KFD-138	32 fl oz/a E	Late Post Application		
2 NIS	0.25% v/v E	Late Post Application		
2 N Pak AMS	6% v/v E	Late Post Application		
3 Roundup PowerMax	32 fl oz/a A	Fall Application	85 a	100-
3 Preview 2:1 SC	25 fl oz/a A	Fall Application		
3 N Pak AMS	6% v/v A	Fall Application		
3 InterMoc / KFD-235-02	29 fl oz/a C	Early Post Application		
3 NIS	0.25% v/v C	Early Post Application		
3 N Pak AMS	6% v/v C	Early Post Application		
3 Interline - Lifeline / KFD-138	32 fl oz/a E	Late Post Application		
3 NIS	0.25% v/v E	Late Post Application		
3 N Pak AMS	6% v/v E	Late Post Application		
4 Roundup PowerMax	32 fl oz/a A	Fall Application	43 b	95-
4 Authority MTZ / KFD-291-02	14 oz/a A	Fall Application		
4 N Pak AMS	6% v/v A	Fall Application		
4 Anthem MAX	2 fl oz/a C	Early Post Application		
4 NIS	0.25% v/v C	Early Post Application		
4 N Pak AMS	6% v/v C	Early Post Application		
4 Interline - Lifeline / KFD-138	32 fl oz/a E	Late Post Application		
4 NIS	0.25% v/v E	Late Post Application		
4 N Pak AMS	6% v/v E	Late Post Application		
5 Roundup PowerMax	32 oz/a A	Fall Application	98 a	100-
5 Audit 1:1	0.75 oz/a A	Fall Application		
5 N Pak AMS	6% v/v A	Fall Application		
5 Preview 2:1 SC	20 fl oz/a B	Spring Application		
5 N Pak AMS	6% v/v B	Spring Application		
5 Interline - Lifeline / KFD-138	32 fl oz/a D	Mid Post Application		
5 NIS	0.25% v/v D	Mid Post Application		
5 N Pak AMS	2.5% v/v D	Mid Post Application		
5 Interline - Lifeline / KFD-138	32 fl oz/a E	Late Post Application		
5 NIS	0.25% v/v E	Late Post Application		
5 N Pak AMS	6% v/v E	Late Post Application		

Means followed by same letter or symbol do not significantly differ (P= .05, Student-Newman-Keuls).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Due to missing data, the effective replicates used for mean comparisons are: col. 1-9, 12-18=3; 10=2.8; 11=1.9

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6 because error mean square = 0.

^ Calculated from residual.

# The Ohio State University

2021 FALL/SPRING/CORN

Trial ID: 22FALLCORN2      Cooperator Trial ID:  
 Protocol ID: H21US-0X1-577-001      Location:      Trial Year: 2020  
 Project ID:      Project ID 2:      Project ID 3:  
 Study Director:      Sponsor Contact:  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type		W, Weed	W, Weed
Pest Code		AMBTR	CHEAL
Pest Scientific Name		Ambrosia trifida	Chenopodium alb>
Pest Name		Giant ragweed common	lambsqua>
Crop Type, Code			
Crop Name			
Rating Date		Jun-27-2022	Jun-27-2022
Rating Type		CONTRO	CONTRO
Rating Unit/Min/Max		%, 0, 100	%, 0, 100
Number of Subsamples		1	1
Data Entry Date		Jun-28-2022	Jun-28-2022
Rating Timing			
Days After First/Last Applic.		220, 12	220, 12
Trt-Eval Interval		27 DA-D	27 DA-D
Plant-Eval Interval		62 DP-1	62 DP-1
Days After Emergence		45 DE-1	45 DE-1
ARM Action Codes			
Number of Decimals		0	0
Trt Treatment	Rate	Appl	Appl
No. Name	Rate Unit	Code	Description
6 Roundup PowerMax	32 fl oz/a	B	Spring Application
6 Preview 2:1 SC	20 fl oz/a	B	Spring Application
6 N Pak AMS	6% v/v	B	Spring Application
6 Interline - Lifeline / KFD-138	32 fl oz/a	D	Mid Post Application
6 NIS	0.25% v/v	D	Mid Post Application
6 N Pak AMS	6% v/v	D	Mid Post Application
6 Interline - Lifeline / KFD-138	32 fl oz/a	E	Late Post Application
6 NIS	0.25% v/v	E	Late Post Application
6 N Pak AMS	6% v/v	E	Late Post Application
LSD P=.05		17*	18*
Standard Deviation		13.0	8.1
CV		7.2	4.5
Grand Mean		8.38	4.55
Levene's F^		85.6	98.3
Levene's Prob(F)		0.852	0.133
Rank X2		0.54	0.982
P(Rank X2)		.	.
Skewness^		0.2261	-0.5467
Kurtosis^		0.5132	-0.5844
Replicate F		1.811	2.500
Replicate Prob(F)		0.2132	0.1317
Treatment F		26.638	1.000
Treatment Prob(F)		0.0001	0.4651

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,12-18=3; 10=2.8; 11=1.9

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6 because error mean square = 0.

^Calculated from residual.

# The Ohio State University

2021 FALL/SPRING/CORN

Trial ID: 22FALLCORN2      Cooperator Trial ID:  
 Protocol ID: H21US-0X1-577-001      Location:      Trial Year: 2020  
 Project ID:      Project ID 2:      Project ID 3:  
 Study Director:      Sponsor Contact:  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

STEME, Stellaria media, chickweed = US  
 LAMPU, Lamium purpureum, purple deadnettle = US  
 CARPE, Cardamine pensylvanica, Pennsylvania bittercress = US  
 RANAB, Ranunculus abortivus, Smallflower buttercup = US  
 ERPSS, Erophila sp., Whitlowgrass = US  
 AMBTR, Ambrosia trifida, Giant ragweed = US  
 SETFA, Setaria faberi, Giant foxtail = US  
 CHEAL, Chenopodium album, common lambsquarters = US  
 AMARE, Amaranthus retroflexus, Redroot pigweed = US  
 ABUTH, Abutilon theophrasti, velvetleaf = US  
 ECHCG, Echinochloa crus-galli, common barnyardgrass = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent

Plant-Eval Interval

0 DP-1 = 1 ZEAMX Apr-26-2022  
 35 DP-1 = 1 ZEAMX Apr-26-2022  
 48 DP-1 = 1 ZEAMX Apr-26-2022  
 62 DP-1 = 1 ZEAMX Apr-26-2022